

551254

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

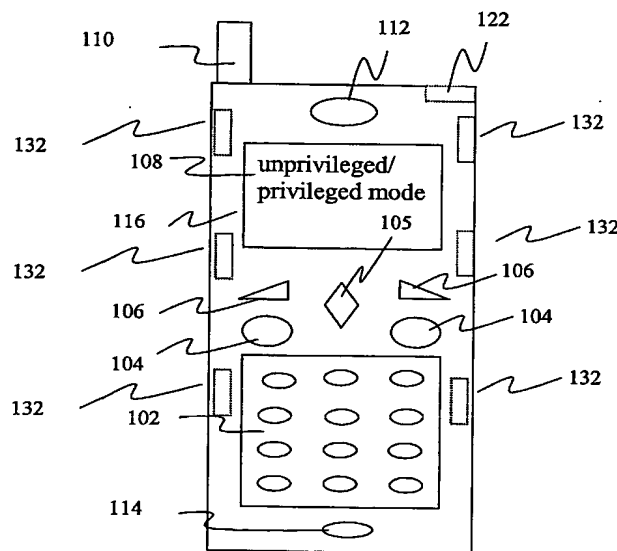
PCT

(10) International Publication Number  
**WO 2004/088955 A2**

- (51) International Patent Classification<sup>7</sup>: **H04M** G. [US/US]; 12415 Holmes Pt. Drive, NE, Kirkland, WA 98033 (US).
- (21) International Application Number: PCT/US2004/010051 (74) Agents: AU YEUNG, Aloysius, T.C. et al.; Schwabe, Williamsson & Wyatt, P.C., Pacswest Center, Suites 1600-1900, 1211 SW Fifth Avenue, Portland, OR 97204-3795 (US).
- (22) International Filing Date: 30 March 2004 (30.03.2004)
- (25) Filing Language: English (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (26) Publication Language: English (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
- (30) Priority Data:  
60/459,281 31 March 2003 (31.03.2003) US
- (71) Applicant (for all designated States except US): WILD-SEED LTD. [US/US]; 10210 NE Points Drive, Suite 300, Kirkland, WA 98033 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): ENGSTROM, Eric,

[Continued on next page]

(54) Title: A WIRELESS MOBILE PHONE WITH AUTHENTICATED MODE OF OPERATION INCLUDING HEART BEAT PROFILE BASED AUTHENTICATION



(57) Abstract: A wireless mobile phone is equipped to operate in an unauthenticated and an authenticated mode of operation, depending on whether a user has been authenticated. In one embodiment, the wireless mobile phone includes a number of sensors to enable a user's heart beat profile to be captured and be used for authentication. In one embodiment, authentication is performed by comparing the real time captured heart beat profile against a reference heart beat profile. In one embodiment, the reference heart profile is retrieved from an identity card. The wireless mobile phone further includes a reader to retrieve the reference heart beat profile from the identity card.

WO 2004/088955 A2



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *without international search report and to be republished upon receipt of that report*